

Title (en)

METHOD AND APPARATUS FOR DETECTING AND DISCRIMINATING FAULTS IN TRANSMISSION CIRCUITS

Publication

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Application

**EP 88311098 A 19881123**

Priority

GB 8727490 A 19871124

Abstract (en)

[origin: EP0318274A2] Discriminating means (DS,DR) are coupled to receive signals from a protected transmission circuit (2). The discriminating means (DS, DR), also receives from a directional detector (DD) signals indicating whether any fault which occurs is forward of, or reverse of, a predetermined point. The discriminating means is arranged to produce an output signal (TS,TR) to trip a circuit breaker (4) of the protected circuit (2) only if a fault occurs within the protected circuit (2). In this respect, the discriminating means (DS,DR) only outputs a trip signal if it receives within the same time period both a signal from the directional detector indicating that the fault is appropriately located, and high frequency signals from the protected circuit (2). Thus the invention utilises the high frequency noise invariably generated when faults arise in transmission systems. The invention has the advantage that it provides good discrimination of faults without requiring communication links between discriminating means at each end of a protected circuit, as has previously been necessary.

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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